



# TMD1101-XR

## Redundant IRIG B Time Code Amplifier & Distributor

The TMD1101-XR equipment provides switching, amplification and distribution between two IRIG B time codes sources.

Its amplifier amplifies and distributes an IRIG B analog time code. The time code is based on a 1 kHz (or 10 KHz) amplitude-modulated (1/3, 1/1) frequency sinusoidal carrier

The equipment is a 1U rack mountable 19 inches unit.

This model has 10 independent outputs

### Operations

On the front panel, 2 groups of 3 LEDs, combined with 2 push buttons allow to:

- Select the mode:
  - Automatic or Manual
- Select the source in manual mode
  - Source A or Source B
- Indicate the selected source
- Indicate the status of the source

### Remote Control

Remote monitoring and control is done via an Ethernet 10/100 Mbit/s connection using either HTTP or a proprietary UDP protocol. It provides the equipment status and can select the mode of operation.



TMD1101-XR front face



## Specifications

### Inputs

Two inputs.

Modulated IRIGB 1:1/1:3 signal.

Insulated female BNC connector.

Minimum 1V, maximum 6V peak-peak loaded 600 ohms.

### Outputs

10 Outputs.

Modulated IRIGB 1:1/1:3 signal.

Insulated female BNC connector.

Minimum 1Vpp at 4Vpp max

Maximum 7.5Vpp at 6Vpp in

Individually adjustable outputs level with signal detection alarm.

### Switching

The time to detect a fault on an input is  $\leq 40$ ms

The switching time is  $\leq 50$ ms

### Redundant AC power

2 x 230V AC Power supply

CEE 2P + T socket with mains filter,

ON/OFF switch

Voltage: 90-264VAC / 47-63Hz

Power consumption: < 20W 230VAC 50Hz

The input and output signals are located on the rear panel of the equipment

The connectors for the two inputs and the 10 outputs are of type BNC - F insulated

The connector for remote management is of type RJ45

### Temperature

Operating temperature:  $-10^{\circ}$  to  $60^{\circ}$  C

Storage temperature:  $-20^{\circ}$  to  $70^{\circ}$  C

Operating relative humidity: 10% to 90% (non-condensing)

Storage relative humidity: 5% to 95% (non-condensing)

### Dimensions

Standard 19" 1U with Depth of 280 mm

Rack 1U 19" L = 483 x I = 280 x H = 44 mm

### Weight

< 3.5 Kg AC power cable TMD1101-2R

< 2.5 Kg AC power cable TMD1101-R

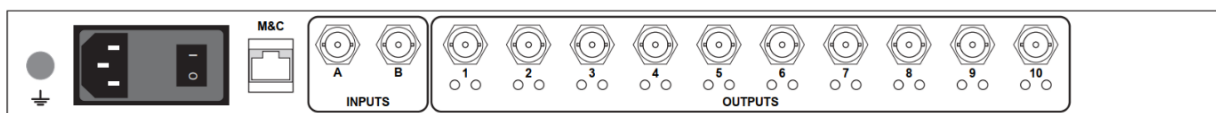
### MTBF

TMD1101-2R : > 150 000h

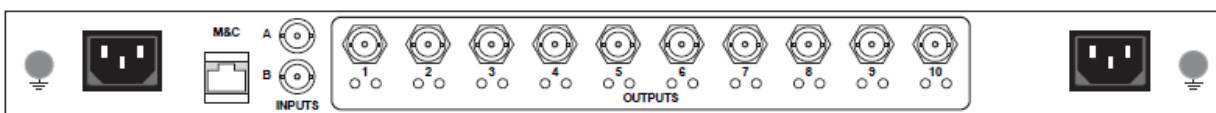
TMD1101-R : >100 000h

### Certification

Certified Hardware CE, ROHS, Reach, ITAR free & EAR 99



TMD1101-R rear panel



TMD1101-2R rear panel

**Ordering code:** TMD1101-XR X=1 or X=2

**TMD1101-R** Standard model (Simple redundancy signal only)

**TMD1101-2R** Full redundancy signal & AC Power

Please contact us for any other combination of redundancy